UNITED STATES PLANT PATENT APPLICATION

of

L. PERNILLE AND MOGENS N. OLESEN

for

MINIATURE ROSE VARIETY

'POULmist'

SUMMARY OF THE INVENTION

The present invention constitutes a new and distinct variety of miniature rose plant which originated from a controlled crossing between an unnamed seedling and 'POULjol'. The two parents were crossed and the resulting seeds were planted in a controlled environment. The new variety is named 'POULmist'.

The new rose may be distinguished from its seed parent, an unnamed seedling, by the following combination of characteristics:

1. The unnamed seed parent is a miniature rose variety with bi-color red and yellow flowers.

The new variety may be distinguished from its pollen parent, 'POULjol', a non-patented rose created by the same inventors, by the following combination of characteristics:

1. The pollen parent has blooms which are a more muted yellow than that of 'POULmist's blooms.

2. The flowers of 'POULmist' have significantly better longevity than

'POULjol'.

The objective of the hybridization of this rose variety for commercial culture was to create a new and distinct variety with unique qualities, such as:

1. Uniform and abundant flowers;
2. Vigorous and compact growth;
3. Year-round flowering under glasshouse conditions;
4. Suitability for production from softwood cuttings in pots;
5. Durable flowers and foliage which make a variety suitable for distribution in the floral industry.

The combination of qualities of this variety represents significant improvement over previously available commercial cultivars of this type and distinguishes 'POULmist' from all other varieties of which we are aware.

As part of their rose development program, L. Pernille Olesen and Mogens N. Olesen germinated the seeds from the aforementioned hybridization and conducted evaluations on the resulting seedlings in a controlled environment in Fredensborg, Denmark.

'POULmist' was selected by the inventors as a single plant from the progeny of the hybridization in May of 1997.

Asexual reproduction of 'POULmist' by cuttings and traditional budding was first done by L. Pernille and Mogens N. Olesen in Fredensborg, Denmark, in August of 1997. This initial and other subsequent propagations conducted in controlled environments have demonstrated that the characteristics of 'POULmist' are true to type and are transmitted from one generation to the next.

BRIEF DESCRIPTION OF THE DRAWING

The accompanying color illustration shows as true as is reasonably possible to obtain in color photographs of this type, the typical characteristics of the buds, flowers, leaves, stems, and a plant of 'POULmist'. Specifically illustrated in SHEET 1:

1. Flowering stem showing branching and the attachment of leaves, buds, and peduncles;
2. Flower bud, partially opened bud, and open bloom;
3. Flower petals, detached;
4. Sepals, receptacle, and pedicel;

5. Bare stem exhibiting thorns;

6. Leaves.

DETAILED DESCRIPTION OF THE VARIETY

The following is a description of 'POULmist', as observed in its growth in glasshouses in; Half Moon Bay, California. Color references are made using the Royal Horticultural Society (London, England) Colour Chart, 1995, except where common terms of color are used.

For a comparison, several physical characteristics of the rose variety 'POULgelb', a miniature rose variety from the same inventors described and illustrated in U.S. Plant Patent No. 9,401 and issued on 19 December, are compared to 'POULmist' in Chart 1.

CHART 1

	'POULmist'	**'POULgelb'**
Petal Color, Uppper Surface:	Yellow Group 12B/C,	Yellow Group 13C.
Petal Color, Lower Surface:	Yellow Group 12D.	Yellow Group 13C.

Petalage:	Very Double: 35 to 40 petals under normal conditions.	Very Double: 30 to 40 petals under normal conditions.

Parents:

Classification:

Botanical: Rosa hybrida.

Commercial: Miniature.

FLOWER AND FLOWER BUD

Blooming habit: Continuous.

Flower bud:

Size: Upon opening, 10 mm - 13 mm in length from base of receptacle to end of bud.

Bud form: Medium; pointed ovoid.

Bud color: As sepals unfold, Yellow Group 9B, Yellow Group 9B at ¼ opening.

Sepals: Yellow-Green Group 144A. Strong foliaceous appendages on three of the five sepals. Surfaces of sepals moderately pubescent. Stipitate glands are present on edges of

sepals

Receptacle:

Surface: Smooth.

Shape: Cup-shaped.

Size: 5 mm (h) x 6 mm (w).

Color: Yellow-Green Group 144A.

Peduncle:

Surface: Smooth.

Length: 50 to 60 mm average length.

Color: Yellow-Green Group 144A.

Strength: Upright.

Borne: Generally with 1 to 2 buds per flowering stem.

Flower bloom:

Fragrance: None.

Duration: As a pot plant, flowers last from 14 to 17 days. As a cut flower 5 to 7 days.

Size: Small for a 15 cm pot rose. Average flower diameter is 40 mm when open.

Form:

Shape of flower when viewed from the side:

Upon opening, upper part: Convex.

Upon opening, lower part: Convex.

Open flower, upper part: Convex.

Open flower, lower part: Concave.

Petalage: Average range: 35 to 40 petals under normal conditions with 3 to 4 petaloids.

Color:

Upon opening, petals:

Outermost petals:

Upper Surface: Yellow Group 12 A/B.

Reverse Side: Yellow Group 12 A/B.

Innermost petals:

Upper Surface: Yellow Group 12 A/B.

Reverse Side: Yellow Group 12 A/B.

Upon opening, basal petal spots:

Outermost petals:

Outer Side: Yellow Group 11D.

Inner Side: No petal spots observed.

Innermost petals:

Outer Side: Yellow Group 11D.

Inner Side: No petal spots observed.

After opening, petals:

Outermost petals:

Upper Surface: Yellow Group 11C.

Reverse Side: Yellow Group 11C.

Innermost petals:

Upper Surface: Yellow Group 11C.

Reverse Side: Yellow Group 11C.

After opening, basal petal spots:

None observed.

General Tonality: On open flower Yellow Group 12 B. No change in the general tonality at the end of the 8th day. Afterwards, general tonality is Yellow Group 11C.

Petals:

Petal Reflex: Double.

Petal Edge: Inner petals uniform; guard petals have point in center

of margin.

Shape: Round.

Petaloids: 3 to 4.

Texture: Thick.

Arrangement: Imbricated.

Reproductive Organs:

Pollen:

Color: Yellow Group 2A.

Quantity: Limited.

Anthers:

Size: Small.

Color: Greyed-Yellow Group 160C.

Abundance: Average.

Filaments:

Color: Yellow-Green Group 145C, with an intonation of Greyed-Purple Group 180B immediately below anther.

Stigmas: Slightly inferior in position relative to anthers.

Color: Greyed-Green Group 193C.

Styles:

Color: Yellow-Green Group 145C,

with intonations of Greyed- Purple Group 180B immediately below stigma.

PLANT

Plant growth: Vigorous, compact. When grown as a 15 cm pot plant, the average height of the plant is 22 to 27 cm and the average width is 20 to 25 cm.

Stems:

Color:

Young wood:	Yellow-Green Group 144A.
Older wood:	Yellow-Green Group 144A.

Prickles:

Incidence:	Few.
Size:	Average length: 4 mm - 6 mm.
Color:	Greyed-Yellow Group 160C.
Shape:	Linear.

Surface:

Young wood:	Smooth.
Older wood:	Smooth.

Plant foliage: Normal number of leaflets on leaves in middle of the stem: 5 leaflets.

Leaf size: 30mm (l) x 16mm (w).

Abundance: Very abundant.

Color:

Upper Leaf Surface: Green Group 137A/B.

Lower Leaf Surface: Green Group 137B.

Juvenile foliage: Green Group 138A.

Anthocyanin intonation:

None observed.

Plant leaves and leaflets:

Stipules:

Size: 8m - 11mm.

Color: Green Group 137A with intonations of Green Group 143C.

Stipitate glands: Present on edges of stipules.

Petiole:

Length: 9mm - 10mm.

Color: Yellow-Green Group 144A.

Underneath: Yellow-Green Group 144A

Margins: Green Group 139A.

Rachis:

Color: Yellow-Green Group 144A.

Underneath: Yellow-Green Group 144A.

Margins: Green Group 139A.

Leaflet:

Edge: Serrated.

Shape: Ovoid.

Texture: Moderately thick, matte.

Disease resistance:

Average resistance to mildew, black spot, and Botrytis under normal growing conditions in Half Moon Bay, California.